

Appl. No. 10/523,435; Docket No. AT02 0049 US
Amdt. dated October 31, 2006
Response to Office Action dated September 1, 2006

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Amendments to the Claims

1. *(Currently Amended)* An electroacoustic transducer
with a transducer axis and
comprising a membrane, which membrane is arranged ~~parallel~~ perpendicular to
the transducer axis so as to be oscillatory, wherein the membrane includes an
intermediate area adjacent to a U-shaped peripheral area and an annular securing area
adjacent to the intermediate area, and a central area located within the annular securing
area, said central area serves for sound generation, and
comprising a magnet system, which magnet system is equipped with two magnet-
system components, which magnet-system components bound an air gap, and
comprising a moving coil, which moving coil is, in part, arranged in the air gap
and is connected to the membrane, and
comprising a circuit module, which circuit module is equipped with a circuit
frame and at least one circuit component of a transducer circuit, mounted on the circuit
frame,
wherein the magnet system is arranged in an annular shape and encloses an inner
space, which inner space is accessible from outside the magnet system during production
of the transducer and before the circuit module is mounted, and
wherein the at least one circuit component is arranged on a first carrier surface of
the circuit frame which first carrier surface faces the membrane, and in the inner space of
the magnet system.
2. *(Previously Presented)* An electroacoustic transducer as claimed in claim 1, wherein
just one single circuit component is provided, which is formed by an integrated circuit
connected to circuit frame, which integrated circuit forms the transducer circuit.
3. *(Previously Presented)* An electroacoustic transducer as claimed in claim 2, wherein
the integrated circuit is embedded in a plastic jacket and wherein two connection contacts
are provided on the plastic jacket, each of which connection contacts is connected to a
moving-coil contact.

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4. (*Previously Presented*) An electroacoustic transducer as claimed in claim 1, wherein four connecting contacts, each having the shape of an annular sector, are provided on a second carrier surface of the circuit frame which second carrier surface faces away from the membrane.

5. (*Currently Amended*) ~~An electroacoustic transducer (1) as claimed in claim 5;~~ An electroacoustic transducer as claimed in claim 1, wherein the circuit module is of a design that can be removed without separate tools.

6. (*Previously Presented*) An electroacoustic transducer as claimed in claim 1, wherein the transducer has a pot-shaped housing wherein, in the direction of the transducer axis, its height has a value between 2.0 mm and 5.0 mm and its diameter perpendicular to the direction of the transducer axis has a value between 6.0 mm and 20.0 mm.